

Amendments to the Abstract

Please add the following abstract on a separate sheet:

Abstract

High Density Fluidic Chip Design and Method of Sample Injection

The present invention discloses a high-density parallel channel design for a microfabricated capillary array electrophoresis chip, with vertical T or double T design for sample injection. An alternative embodiment of the invention includes a closed buffer reservoirs with integrated electrodes and buffer feeding ports. Also disclosed are novel sample loading and injection methods, including the use of using either a capillary array connected to an electrode, or an array of metal pens as the loader/electrode.